

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended) A laser-diode-pumped solid-state laser oscillator, ~~characterized by~~ comprising:

a solid-state pumping medium;

a plurality of laser diodes arranged around said solid-state pumping medium and ~~adapted~~ configured to irradiate pumping light to said solid-state pumping medium;

~~a detector~~ detection means adapted configured to detect a failure of a failed one of said laser ~~diode~~ diodes; and

~~a control means~~ controller adapted configured to determine a position of said failed laser diode, ~~the failure of which is detected by said detection means~~, and to control supply currents to other normal laser diodes, according to the position of said failed laser diode ~~whose failure occurs,~~

wherein said controller is configured to stop supply of electric current to and turn off a part or all of normal laser diodes positioned on a same plane as the position of said failed laser diode, and

wherein said same plane is perpendicular to a central longitudinal axis of said solid-state pumping medium.

2. (canceled)

3. (currently amended) The laser-diode-pumped solid-state laser oscillator according to claim ~~21~~, wherein~~characterized in that:~~

———~~said control means~~controller is ~~adapted~~configured to stop supply of electric current to and turn off a normal laser diode provided at a position facing the position of the failed laser diode ~~whose failure occurs~~ in a case where a direction number of said laser diodes is even.

4. (currently amended) The laser-diode-pumped solid-state laser oscillator according to claim ~~21~~, wherein~~characterized in that:~~

———~~said control means~~controller is ~~adapted~~configured to stop supply of electric current to and turn off all of the normal laser diodes positioned on ~~the said~~ same plane as the position of said laser diode ~~whose failure is caused and perpendicular to the central axis of said solid state pumping medium~~ in a case where a direction number of said laser diodes is odd.

5. (currently amended): The laser-diode-pumped solid-state laser oscillator according to claim 1, wherein~~characterized in that:~~

———~~said detection means~~detector is provided between electrodes of said failed laser diode and is ~~adapted~~configured to detect ~~a~~the failure of said failed laser diode according to a voltage between said electrodes of said failed laser diode.

6. (currently amended): The laser-diode-pumped solid-state laser oscillator according to claim ~~21~~, wherein~~characterized in that:~~

\_\_\_\_\_ ~~said control means~~ controller is ~~adapted~~ configured to short-circuit between electrodes of said failed laser diode and to bypass electric current flowing ~~through~~ to said failed laser diode by controlling a bypass ~~means~~ circuit provided between said electrodes of said failed laser diode.

7. (currently amended): The laser-diode-pumped solid-state laser oscillator according to claim 1, ~~characterized by including~~ further comprising an:

\_\_\_\_\_ ~~adjusting means~~ adapted configured to detect power of an outputted laser beam and to adjust an amount of electric power supplied to said normal laser ~~diode~~ diodes so as to obtain desired laser beam power.

8. (currently amended) The laser-diode-pumped solid-state laser oscillator according to claim 1, further comprising ~~characterized in that~~:

\_\_\_\_\_ ~~a plurality of cavities, each of which is a combination of~~ comprises ~~said~~ a solid-state pumping medium and a plurality of ~~said~~ laser ~~diode~~ diodes,

\_\_\_\_\_ wherein the plurality of cavities ~~-are~~ arranged on a same optical axis of a laser beam to thereby obtain a laser output.

9. (currently amended) A method of controlling laser diodes of a laser-diode-pumped solid-state laser oscillator ~~adapted~~ configured to pump a solid-state pumping medium by pumping light outputted from said laser diodes to obtain a laser output, ~~characterized by the method~~ comprising the steps operations of:

detecting a failure of a failed one of said laser ~~diode~~ diodes;

determining a position of said failed laser diode ~~the failure of which occurs~~;  
selecting a laser diode, which is to be turned off, according to the determined position;  
turning off said selected laser diode; and  
adjusting a laser output, which is changed by turning off said selected laser diode, to a  
desired laser output,  
wherein said operation of selecting said laser diode comprises selecting a part or all of  
normal laser diodes positioned on a same plane as the position of said failed laser diode, and  
wherein said same plane is perpendicular to a central longitudinal axis of said solid-state  
pumping medium.

10. (canceled)

11. (currently amended) The method of controlling laser diodes according to claim 9,  
wherein characterized in that:  
——— said step operation of selecting said laser diode is adapted comprises to select selecting a  
normal laser diode provided at a position facing the position of said failed laser diode ~~whose~~  
~~failure occurs~~ in a case where a direction number of said laser diodes is even.

12. (currently amended) The method of controlling laser diodes according to claim 9,  
wherein characterized in that:

\_\_\_\_\_ said ~~step~~operation of selecting said laser diode ~~is adapted to~~comprises ~~stop~~stopping supply of electric current to and ~~turn~~turning off all ~~of~~ normal laser diodes positioned on ~~the~~a same plane as the position of said failed laser diode ~~whose failure is caused~~, and  
\_\_\_\_\_ wherein said same plane is perpendicular to ~~the~~a central longitudinal axis of said solid-state pumping medium in a case where a direction number of said laser diodes is odd.

13. (new): A laser-diode-pumped solid-state laser oscillator comprising:
- a solid-state pumping medium;
  - a plurality of laser diodes arranged around said solid-state pumping medium and configured to irradiate pumping light to said solid-state pumping medium;
  - a detector configured to detect a failure of a failed one of said laser diodes; and
  - a controller configured to determine a direction from which said failed laser diode irradiated pumping light to said solid-state pumping medium, and to control supply currents to other normal laser diodes, according to the determined direction,
- wherein said controller is configured to stop supply of electric current to and turn off a part or all of normal laser diodes positioned on a same plane as the direction from which said failed laser diode irradiated pumping light to said solid-state pumping medium, and
- wherein said same plane is perpendicular to a central longitudinal axis of said solid-state pumping medium.